

Amendments to the Specification other than the Claims:

Please add the following heading after the first paragraph on page 1:

Background of the Invention

Please replace the third paragraph on page 1 with the following:

If a charged particle or photon strikes the detector, it produces pairs of electron-holes electron-hole pairs in the region of the crystalline germanium. The relevant charge migrates to the corresponding contact, where it is read out. The position-dependent charge measured presents a measure for the required information.

Please replace the last paragraph beginning on page 2 with the following:

To obtain a position-sensitive detector, the n and/or p layers are provided with structures. The structures can be produced using a lithographic method. Such lithographic methods are already known within the general specialist knowledge. With one photo-photolithographic method, a photo-sensitive paint coating is applied to the surface, which is to be structured. The photo-sensitive paint coating is partially exposed through a shadow mask. Using plasma etching, grooves are then introduced into the surface in the exposed parts of the photo-sensitive paint coating. The n layer and/or p layer is then structured. This should be understood to mean that the layer acting as the n contact or p contact is subdivided into individual segments, which are separated from one another by grooves. These separated elements are frequently referred to in the literature as position elements. Finally, the paint coating layer may be removed, for example, by chemical etching.

Please add the following heading before the first full paragraph on page 5:

Summary of the Invention

Please add the following heading and paragraphs after the first full paragraph on page 5:

Brief Description of the Drawings

Figure 1 shows a cross section of a detector according to a first preferred embodiment.

Figure 2 shows a cross section of a detector according to a second preferred embodiment.

Please add the following heading before the third full paragraph from the bottom of page 5.

Detailed Description of the Preferred Embodiments